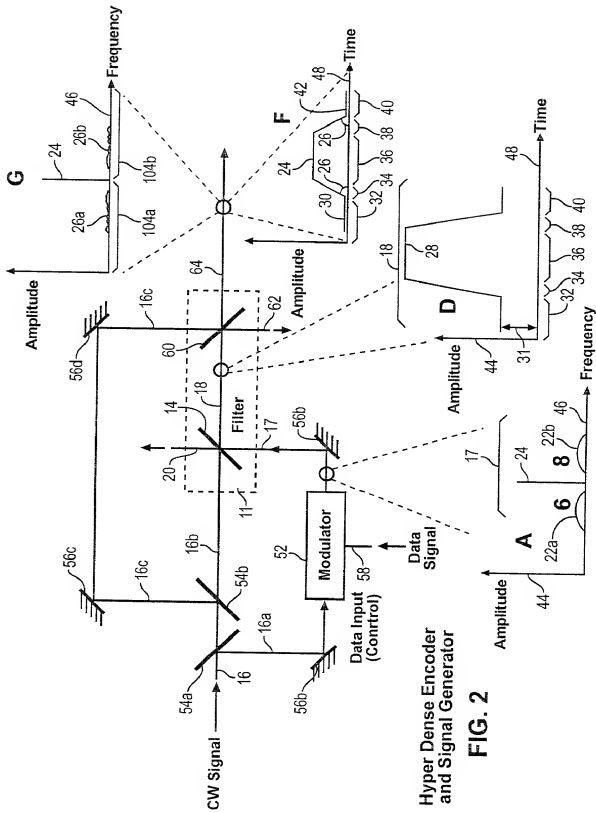


FIG. 1



Hyper Dense Encoder
and Signal Generator

FIG. 2

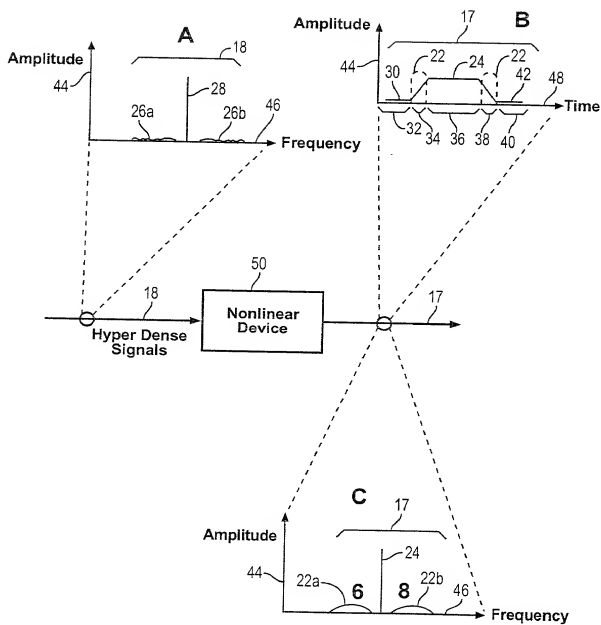


FIG. 3

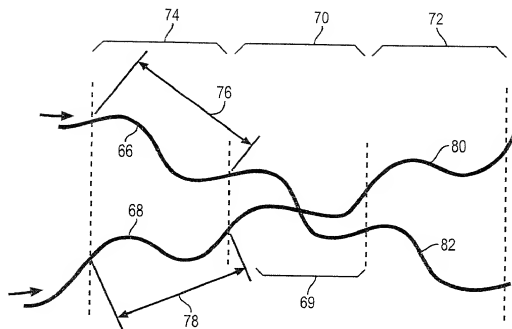


FIG. 4

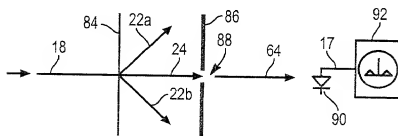


FIG. 5

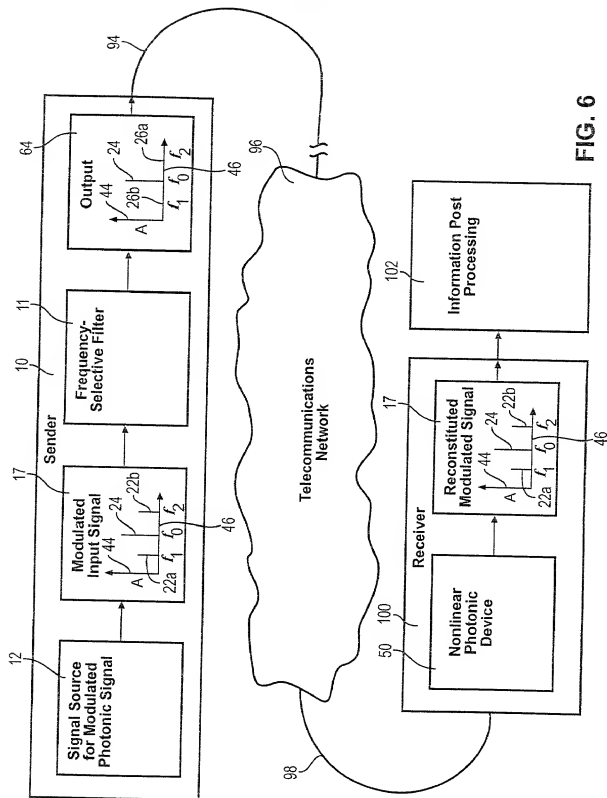


FIG. 6

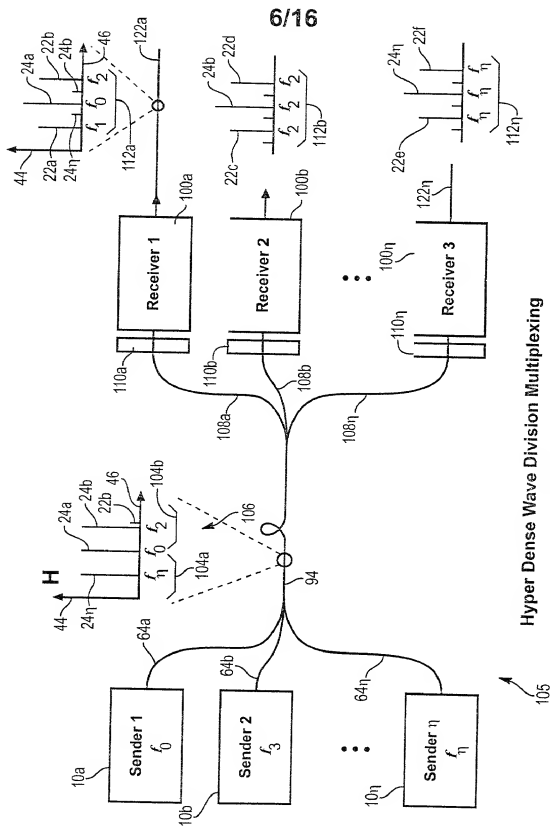


FIG. 7

Hyper Dense Wave Division Multiplexing

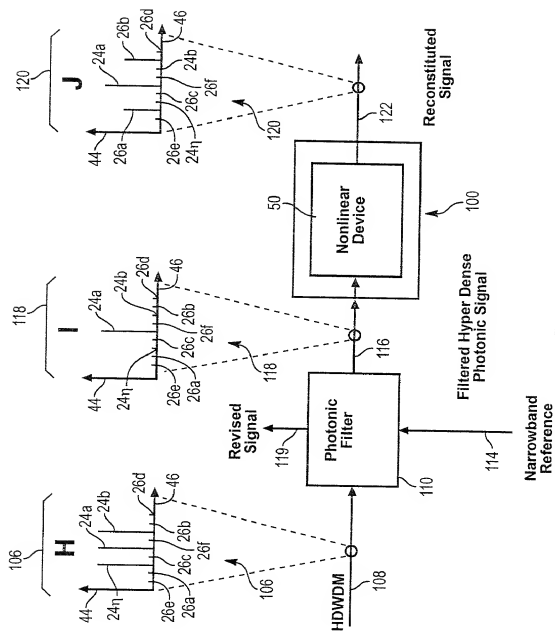


FIG. 8

Hyper Dense Wave Division Demultiplexor (HDWDDM) Using Drop-Filter Band Selection

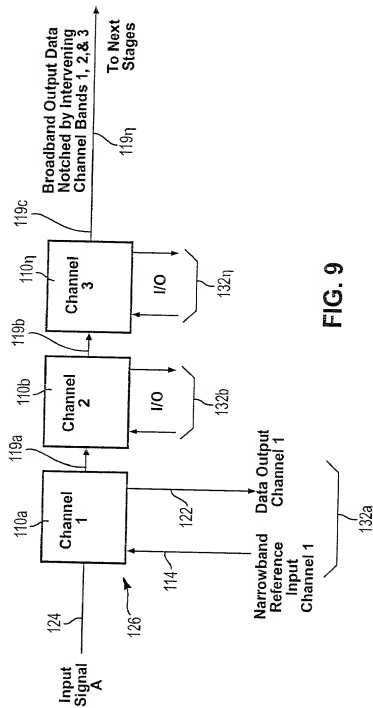


FIG. 9

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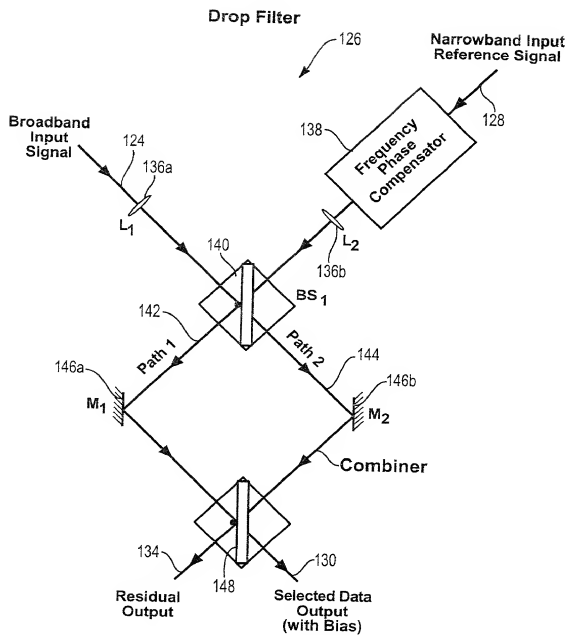


FIG. 10

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Super Hyper Wave Division Demultiplexor (HDWDDM) Using Drop Filter Band Selection

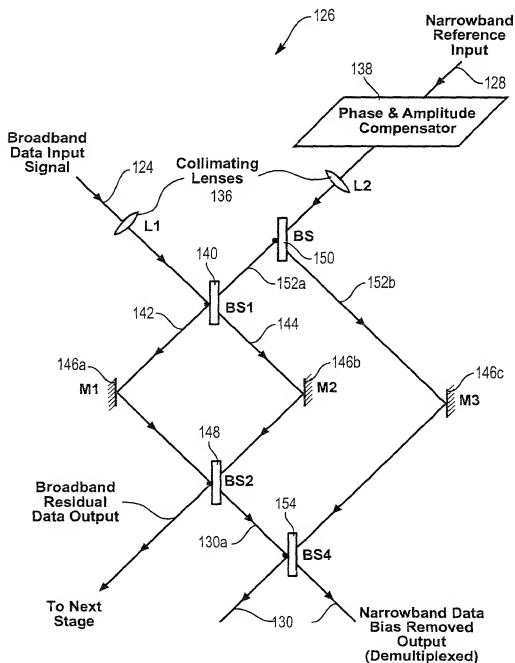
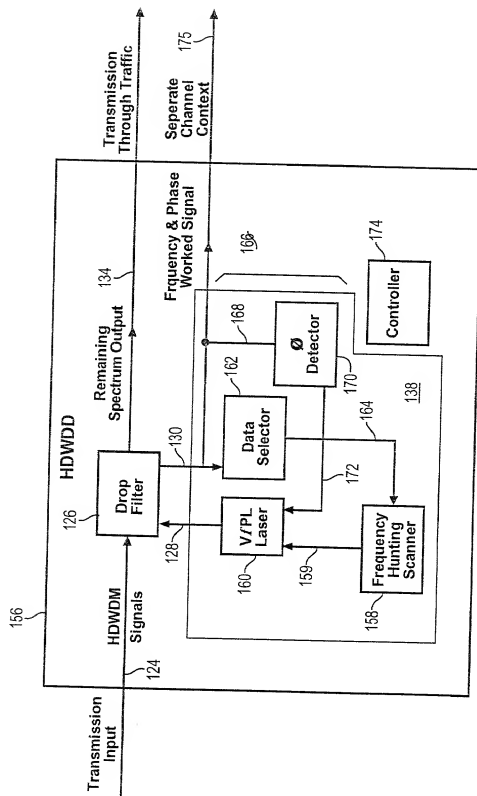


FIG. 11



Hyper Dense Channel Separator

FIG. 12

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Channel-Selection Process

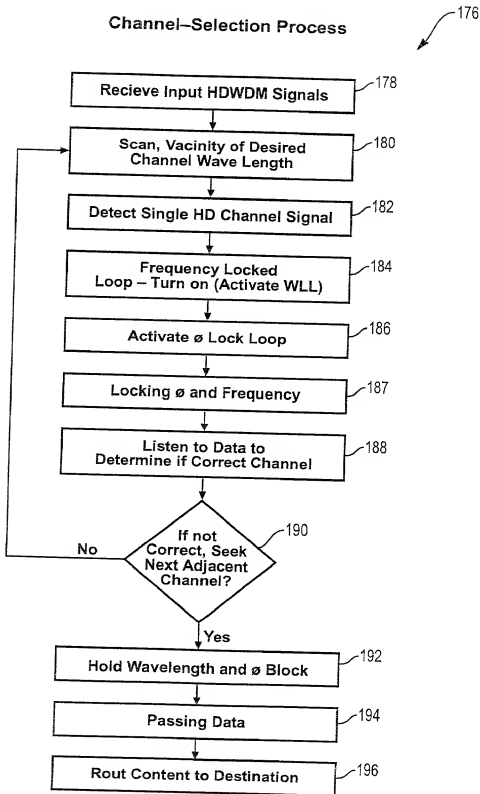
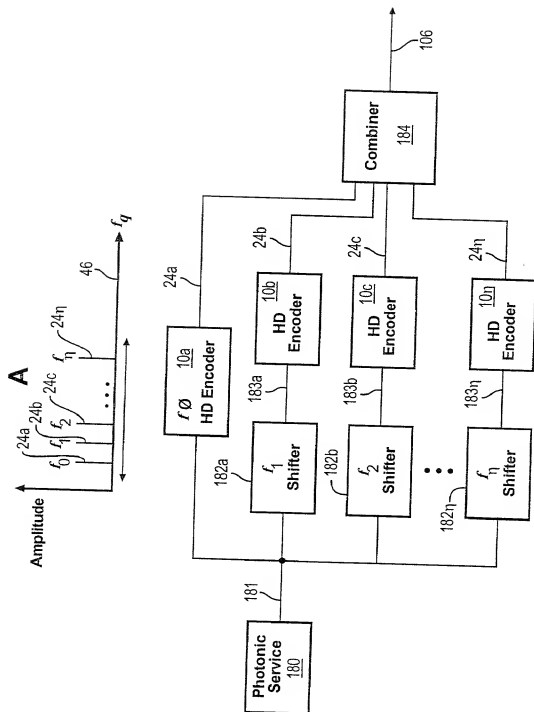
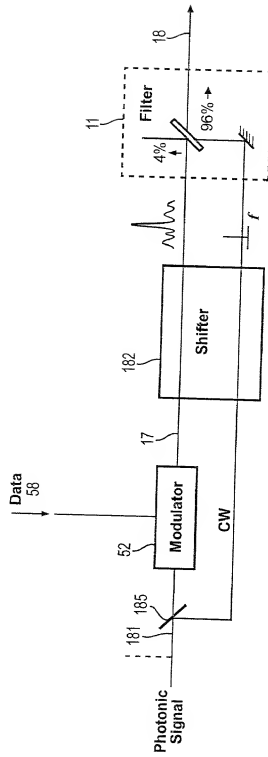


FIG. 13



HDWDM Multiplexer

FIG. 14



Hyper Dense Frequency Shifted Signals

FIG. 15

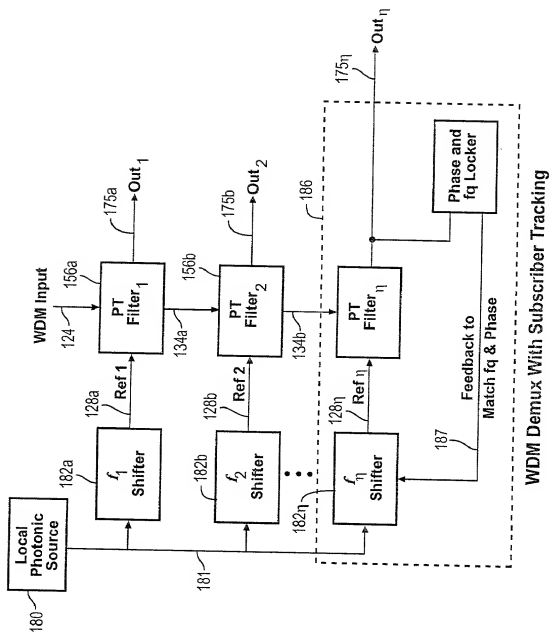
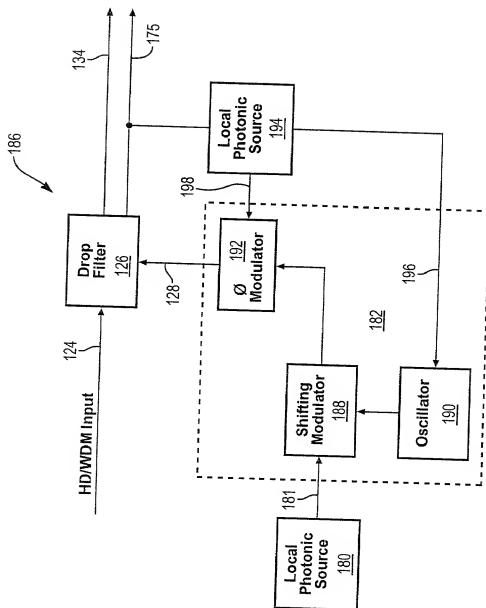


FIG. 16



Channel Separation Assembly

FIG. 17